AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A multilayer structure formed on a glass or plastic substrate for shading ultraviolet and infrared light, comprising:

~~two or~~ three layers of Ag;

two ~~or three~~ layers of indium tin oxide (ITO); and

dielectric oxide layers ranging from two layers to four layers,

wherein ~~at least~~ two AG layers are alternately formed to be in contact with the two ITO ~~layer~~ layers, and the other Ag layer is formed to be in contact with the substrate; ~~as an upward or downward layer.~~

wherein one of the dielectric layers is a top layer from the substrate; and

wherein each dielectric oxide layer is made of a material which is selected from SiO_2, Al_2O_3, ZrO_2, Y_2O_3, and Ta_2O_5.

2-3. Cancelled

4. (Currently Amended) The multilayer structure as recited in claim 1, wherein the multilayer structure has seven (7) layers of:

a first layer of Ag formed on the substrate, having a thickness of ~~5.79~~ at least 5.7 nm and a refractive index of ~~0.051~~ at least 0.05;

a second layer of Y_2O_3 formed on the first layer, having a thickness of ~~85.56~~ at least 85.5 nm and a refractive index of ~~1.79581~~ at least 1.7;

a third layer of Ag formed on the second layer, having a thickness of ~~9.39~~ at least 9.3 nm and a refractive index of ~~0.051~~ at least 0.05;

a fourth layer of ITO formed on the third layer, having a thickness of ~~71.91~~ at least 71.9 nm and a refractive index of ~~2.058~~ at least 2.05;

a fifth layer of Ag formed on the fourth layer, having a thickness of ~~12.82~~ at least 12.8 nm and a refractive index of ~~0.051~~ at least 0.05;

a sixth layer of ITO formed on the fifth layer, having a thickness of ~~36.14~~ at least 36.1 nm and a refractive index of ~~2.058~~ at least 2.05; and

a seventh layer of Y_2O_3 formed on the sixth layer, having a thickness of ~~4.08~~ at least 4.0 nm and a refractive index of ~~1.79581~~ at least 1.7.

5. (Currently Amended) The multilayer structure as recited in claim 1, wherein the multilayer structure has seven (7) layers of:

a first layer of Ag formed on the substrate, having a thickness of at least 5.6 nm and a refractive index of ~~0.0051~~ at least 0.005;

a second layer of ZrO_2 formed on the first layer, having a thickness of ~~63.84~~ at least 63.8 nm and a refractive index of ~~2.06576~~ at least 2.06;

a third layer of Ag formed on the second layer, having a thickness of ~~10.05~~ at least 10.0 nm and a refractive index of ~~0.051~~ at least 0.05;

a fourth layer of ITO formed on the third layer, having a thickness of ~~76.34~~ at least 76.3 nm and a refractive index of ~~2.058~~ at least 2.05;

a fifth layer of Ag formed on the fourth layer; having a thickness of ~~13.07~~ at least 13.0 nm and a refractive index of ~~0.051~~ at least 0.05;

a sixth layer of ITO formed on the fifth layer, having a thickness of ~~29.57~~ at least 29.5 nm and a refractive index of ~~2.058~~ at least 2.05; and

a seventh layer of ZrO_2 formed on the sixth layer, having a thickness of ~~9.58~~ at least 9.5 nm and a refractive index of ~~2.06576~~ at least 2.06.

6-8. Cancelled.

9. (Original) An article comprising the structure of claim 1 applied to a surface of a glass or plastic substrate.

10. (Currently Amended) A window construction for ultraviolet and infrared shading comprising:

a substrate of glass or plastic material;

~~two or~~ three layers of Ag;

two ~~or three~~ layers of indium tin oxide (ITO); and

dielectric oxide layers ranging from two layers to four layers,

wherein ~~at least~~ two Ag layers are alternately formed to be in contact with the two ITO ~~layer~~ layers, and the other Ag layer is formed to be in contact with the substrate; ~~as an upward or downward layer~~

wherein one of the dielectric layers is a top layer from the substrate; and

wherein each dielectric oxide layer is made of a material which is selected from SiO_2, Al_2O_3, ZrO_2, Y_2O_3, and Ta_2O_5.

11. Cancelled.

12. (Currently Amended) A safety glass comprising:

two transparent panes made of glass or plastic material;

a plastic sheet adhered between the two transparent panes, preventing the panes from shattering; and

an optical coating formed on at least one of the transparent panes against the plastic sheet, for shading ultraviolet and infrared light, comprising:

~~two or~~ three layers of Ag;

two ~~or three~~ layers of indium tin oxide (ITO); and

dielectric oxide layers ranging from two layers to four layers[[,]];

wherein ~~at least~~ two Ag layers are alternately formed to be in contact with the two ITO ~~layer~~ layers, and the other Ag layer is formed to be in contact with the substrate, ~~as an upward or downward layer.~~

wherein one of the dielectric layers is a top layer from the pane; and

wherein each dielectric oxide layer is made of a material which is selected from SiO_2, Al_2O_3, ZrO_2, Y_2O_3, and Ta_2O_5.

13. Cancelled.